

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently Amended) A method for validating programs, the method comprising steps implemented by one or more computers of:
  - receiving a meta-language description of a computer program, the meta-language description comprising a meta-language definition module and a meta-language implementation module, the meta-language implementation module defining a first class to be implemented by the computer program and the meta-language definition module defining a first interface associated with the class;
  - validating the meta-language description by validating [[the]] syntax of the meta-language definition module and syntax of the meta-language implementation module;
  - generating a language-dependent program from the meta-language description, the language-dependent program comprising the first interface, [[and]] the first class, and a script code section written in a scripting language; [[and]]
  - performing usage and semantic checks on the computer program by compiling the generated first interface and the generated first class; and

performing usage checks on the script code section by extracting language elements from the generated script code section and comparing the extracted language elements with the meta-language definition module used to generate the language-dependent program.

2-10. (Cancelled).

11. (Currently Amended) A computer program product, tangibly embodied in a computer-readable storage device, the computer program product comprising instructions operable to cause one or more computers ~~data processing equipment~~ to perform a method comprising:

receiving a meta-language description of a computer program, the meta-language description comprising a meta-language definition module and a meta-language implementation module, the meta-language implementation module defining a first class to be implemented by the computer program and the meta-language definition module defining a first interface associated with the class;

validating the meta-language description by validating ~~[[the]]~~ syntax of the meta-language definition module and syntax of the meta-language implementation module;

generating a language-dependent program from the meta-language description, the language-dependent program comprising the first interface, ~~[[and]]~~ the first class, and a script code section written in a scripting language; [[and]]

performing usage and semantic checks on the computer program by compiling the generated first interface and the generated first class; and

performing usage checks on the script code section by extracting language elements from the generated script code section and comparing the extracted language elements with the meta-language definition module used to generate the language-dependent program.

12-20. (Cancelled).

21. (Currently Amended) An apparatus, comprising:

means for receiving a meta-language description of a computer program, the meta-language description comprising a meta-language definition module and [[an]] a meta-language implementation module, the meta-language implementation module defining a first class to be implemented by the computer program and the meta-language definition module defining a first interface associated with the class;

means for validating the meta-language description by validating [[the]] syntax of the meta-language definition module and syntax of the meta-language implementation module;

means for generating a language-dependent program from the meta-language description, the language-dependent program comprising the first interface, [[and]] the first class, and a script code section written in a scripting language; and

means for performing usage and semantic checks on the computer program by compiling the generated first interface and the generated first class, and performing usage checks on the script code section by extracting language elements from the generated script code section and comparing the extracted language elements with the meta-language definition module used to generate the language-dependent program, and

a programmable processor for implementing at least the means for performing usage checks.

22. (Canceled)

23. (Currently Amended) The method according to claim [[25]] 1, further comprising:

generating a compiler language representation of the script code section, the compiler language representation of the script code section comprising a second interface and a second class.

24. (Currently Amended) The method according to claim 23, further comprising:

performing usage and semantic checks on the script code section by compiling the compiler language representation of the script code section, including the generated second interface and the generated second class.

25. (Canceled)

26. (New) The computer program product according to claim 11, the method further comprising:

generating a compiler language representation of the script code section, the compiler language representation of the script code section comprising a second interface and a second class.

27. (New) The method according to claim 26, the method further comprising:  
performing usage and semantic checks on the script code section by compiling the compiler language representation of the script code section, including the generated second interface and the generated second class.

28. (New) The apparatus according to claim 21, further comprising:  
means for generating a compiler language representation of the script code section, the compiler language representation of the script code section comprising a second interface and a second class.

29. (New) The apparatus according to claim 28, wherein the means for performing usage and semantic checks performs usage and semantic checks on the

script code section by compiling the compiler language representation of the script code section, including the generated second interface and the generated second class.